

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v332)**

1. Expand the following expression into standard form.

$$(6x - 5)(6x + 5)$$

2. Expand the following expression into standard form.

$$(2x - 3)(5x - 6)$$

3. Solve the equation.

$$(6x + 5)(9x + 4) = 0$$

4. Expand the following expression into standard form.

$$(5x + 8)^2$$

5. Solve the equation with factoring by grouping.

$$8x^2 + 10x + 12x + 15 = 0$$

6. Factor the expression.

$$x^2 - 5x + 6$$

7. Factor the expression.

$$49x^2 - 36$$

8. Solve the equation.

$$7x^2 - 8x + 1 = 4x^2 + 3x - 5$$